

BXP640X ModeS Transponders

FEATURES

Transmit power:

- ≥250 W (class 1)
- ≥150 W (class 2)

EASA and FCC approved (ETSO-2C112a, Level 2es)

Suited for VFR and IFR operations

Supports non-certified ADS-B Out applications



BXP6401

BXP6403

Class
1
2

Watt
250
150

Mount.
2 1/4"

Mount.
160mm



OVERVIEW

The BXP640X Mode S transponders are a family of high-quality aircraft surveillance systems optimized by their functionalities, state-of-the-art technology, compact dimensions, and low weight for many different aircraft categories in the general aviation community. Market leader for their reliability, the products follow the highest manufacturing and testing standards in the Light & Sport Aviation segment.

Available as panel-mount equipped with sunlight readable LC displays or as remote mount, the BXP640X transponders combine modern processor technology with the Becker typical reputation for reliability and quality. Certified according to ETSO-2C112a, the BXP640X transponders are available as Class 1 or Class 2 variants for VFR and IFR operations up to 50,000 feet, in the following formats:

- BXP6401: 2 ¼ format, easy installation in cockpit panels using only 4 screws.
- BXP6402: split variant, controlled with the CU6401 control unit (2 ¼ inch panel format). The remote controlled BXP6402 can thereby be installed wherever space is available in the aircraft.
- BXP6403: 160mm width for panel installation with the dedicated mounting.

The BXP640X series supports the SI code function, extended squitter and ADS-B Out capability. Reputed for their world class reliability and premium manufacturing quality, all BXP640X transponders are supplied with a 5-year standard warranty package.

BENEFITS

- ▶ Compact and lightweight
- ▶ Sunlight readable display
- ▶ Robust and maintenance-free design
- ▶ No forced cooling
- ▶ No ventilation slots
- ▶ Market-leading durability

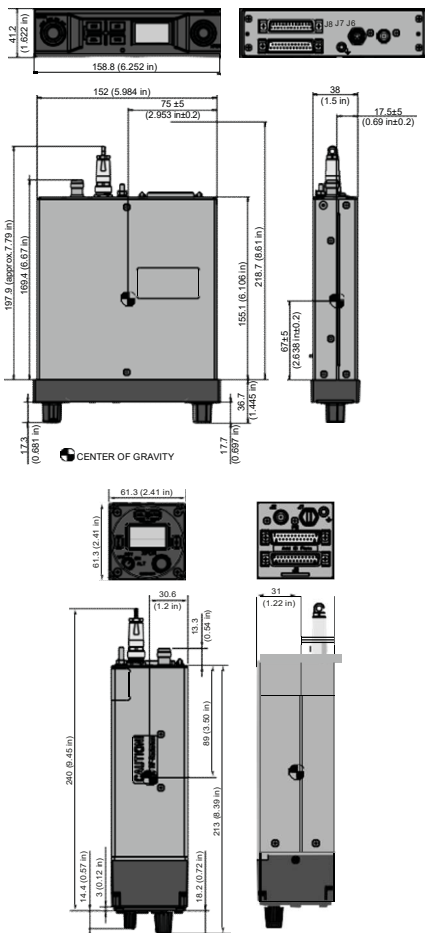


CU 6401



BXP 6402-1R

TECHNICAL DATA



Dimensions in mm (inch)

Supply voltage	10.0 V to 33.0 VDC
Current consumption: Typical, without illum.	0.43 A at 14 V 0.25 A at 28 V
Standby	0.22 A at 14 V 0.14 A at 28 V
Power-up time:	2 sec. (internal self-test)
Ext. Fuse protection:	5 A slow-blow
Operating temperature:	-20... +55°C (short-time +70°C)
Operating altitude:	≤50.000 ft (BXP640X-1) ≤15.000 ft (BXP640X-2)
Operating modes:	Mode A, Mode A+C, Mode S
MODE S	Level2es-extendedsquitter-surveillanceidentifier
Vibration resistance in accordance with EUROCAE/RTCA / ED-14D/DO-160D	Category S. Curve M Category U. Curve G
Humidity in accordance with EUROCAE/RTCA / ED-14D/DO-160-D	Category A / + 50°C 95%, 48h
Interfaces	Serial and parallel Altimeter Avionics data link processor
Certification:	ETSO-2C112a. / EASA.210.322
Receiver data:	
Receive frequency:	1030 MHz ± 0.2 MHz
Sensitivity (MTL):	-74 dBm +/- 3 dB
Selectivity:	± 15 MHz >40 dB / ± 25 MHz >60 dB
Dynamic range:	≥ 60 dB
Side lobe suppression	3 - pulse method (A/C) P5 (Mode S)
Nominal impedance	50 Ω
Transmitter data:	
Transmit frequency:	1090 MHz ± 1 MHz
Transmitter type:	Solid state
Transmit power:	≥ 250 W (BXP6401-1) / ≥ 160 W (BXP6401-2)
Reply rate limitation:	500...12000 replies/sec. configurable
Nominal output:	50 Ω
Weight:	BXP6403 : 900 g (1.985 lbs) BXP6401 : 800 g (1.764 lbs) BXP6402-R : 700 g (1.54 lbs) CU6402 : 220 g (0.485 lbs)